

BWT CS-2005

A material safety data sheet is not mandatory for this product according to the article 31 of REGULATION 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL. It has been written voluntarily according to article 32 of that Regulation.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : BWT CS-2005

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Water and process additives
Industrial/Professional use spec : For professional use only
Function or use category : Treatment of cooling circuits

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

BWT France
103, Rue Charles Michels
93206 SAINT-DENIS CEDEX
T +33 1 49 22 45 00 - F +33 1 49 22 46 50
msds@bwt.fr

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

Physical and chemical hazards : None known
Health hazards : None known
Environmental hazards : None known

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-phosphonobutane-1,2,4-tricarboxylic acid	(CAS No) 37971-36-1 (EC no) 253-733-5	3 - 10	Met. Corr. 1, H290

Full text of H-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Take off contaminated clothing. Rinse immediately with plenty of water. Soap may be used. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	: Rinse mouth. Give nothing to drink. Do NOT induce vomiting. Seek medical attention if ill effect develops.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
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4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Carbon monoxide. Carbon dioxide. Phosphorus oxides.
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5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Use suitable disposal containers. Dilute residues and flush. Recover the cleaning water for later disposal. Dispose in a safe manner in accordance with local/national regulations.
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6.4. Reference to other sections

See Heading 8. (Exposure controls and personal protection). See Heading 13. (Disposal considerations).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep only in the original container in a cool, well-ventilated place. Keep container closed when not in use.
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Incompatible materials	: Bases. Oxidizing agent.
Storage temperature	: 5 - 35 °C
Heat and ignition sources	: Keep away from heat.
Storage area	: Keep out of frost.
transport and storage indicator	:



7.3. Specific end use(s)

Contact supplier if guidance is required.



SECTION 8: Exposure controls/personal protection

8.1. Control parameters

BWT CS-2005		
France	VME (mg/m ³)	There exist no exposure limits for this material

8.2. Exposure controls

Appropriate engineering controls : Not required.

Personal protective equipment :  

Hand protection : Wear protective gloves. (Nitrile rubber).

Eye protection : Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Slightly yellow.
Odour	: slight.
Odour threshold	: No data available
pH	: 3,9 ± 0,5 (20°C)
pH solution	: 4 ± 0,5 (1%)(20°C)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: -1 °C
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1,13 ± 0,02 (20°C)
Solubility	: Complete.
Log Pow	: Not applicable
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: None to our knowledge.
Oxidising properties	: None to our knowledge.
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

See Heading : 10.3 - 10.5.

10.2. Chemical stability

Stable in use and storage conditions as recommended in item 7.

10.3. Possibility of hazardous reactions

Reacts violently with : Bases. An exothermic reaction may occur.

10.4. Conditions to avoid

Heat. Freezing.

10.5. Incompatible materials

Bases. Oxidizing agent.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity : Not classified

2-phosphonobutane-1,2,4-tricarboxylic acid (37971-36-1)

LD50 oral rat	> 2000 mg/kg
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Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : May cause sensitisation by skin contact

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information**12.1. Toxicity**

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential**BWT CS-2005**

Log Pow	Not applicable
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12.4. Mobility in soil**BWT CS-2005**

Ecology - soil	Easily seeps into the soil.
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12.5. Results of PBT and vPvB assessment**BWT CS-2005**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment

Other information

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

Not regulated for transport

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Comply with applicable regulations

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

	SDS EU format	Modified	
2.1	Classification	Removed	H318
2.2	Labelling	Removed	
3	Composition/information on ingredients	Modified	Classification
4.1	First-aid measures after eye contact	Modified	
4.1	First-aid measures after skin contact	Modified	
7.1	Precautions for safe handling	Removed	
8	Appropriate engineering controls	Removed	

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information

: None.

Full text of R-, H- and EUH-statements:

Met. Corr. 1	Corrosive to metals, Category 1
H290	May be corrosive to metals

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product